

## General

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## Physical Chemical Information

<b>Molecular Weight:</b>	<input type="text"/>	<b>Physical State - Neat:</b>	Solid (est)
<b>Percent 500:</b>	<input type="text"/>	<b>Percent 1000:</b>	<input type="text"/>
<b>Melting Point (Measured):</b>		<b>Melting Point (est):</b>	
<b>Vapor Pressure:</b>		<b>Vapor Pressure (est):</b>	<0.000001
<b>Water Solubility:</b>		<b>Water Solubility (EST):</b>	<0.000001
<b>Log Kow:</b>		<b>Log P</b>	
<b>Log P:</b>		<b>Comment:</b>	
		<b>MPD (EPI):</b>	
		<b>VP (EPI):</b>	
		<b>Water Solubility (EPI):</b>	
		<b>Log Kow (EPI):</b>	

## SAT Concern

<b>Ecotox Rating (1):</b>	1	<b>Ecotox Rating Comment (1):</b>	
<b>Ecotox Rating (2):</b>		<b>Ecotox Rating Comment (2):</b>	
<b>Health Rating (1):</b>	1-2	<b>Health Rating Comment (1):</b>	
<b>Health Rating (2):</b>		<b>Health Rating Comment (2):</b>	

## PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
3	1	2	

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**Exposure N**  
**Based Review**  
**(Health)?**  
**Exposure Based N**  
**Review**  
**(Ecotox)?**  
**SAT UNCERTAIN**  
**Keywords: DEVEL**

**Fate Assessment P-18-0054**

**Summary: FATE:**

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Solid

S = Negl.

VP < 1.0E-6 torr at 25 °C (E)

BP > 400 °C (E)

H < 1.00E-8 (E)

POTW removal (%) = 90

via sorption

Time for complete ultimate aerobic biodeg > mo

Sorption to soils/sediments = v.strong

PBT Potential: P3B1

\*CEB FATE: Migration to ground water = negl

**Removal in 90**  
**WWT/POTW**  
**(Overall):**

Condition	Rating Values w/ Rating Description	Comment
<b>WWT/POTW</b>	3	
<b>Sorption:</b>		
<b>WWT/POTW</b>	4	
<b>Stripping:</b>		
<b>Biodegradation</b>	4	
<b>Removal:</b>		
<b>Biodegradation</b>		
<b>Destruction:</b>		
<b>Aerobic Biodeg</b>	4	
<b>Ult:</b>		
<b>Aerobic Biodeg</b>		
<b>Prim:</b>		

Condition	Rating Values w/ Rating Description	Comment
Anaerobic Biodeg Ult:	4	
Anaerobic Biodeg Prim:		
Hydrolysis (t1/2 at pH 7,25C) A:		
Hydrolysis (t1/2 at pH 7,25C) B:		
Sorption to Soils/Sediments:	1	
Migration to Ground Water:	1	
Photolysis A, Direct:		
Photolysis B, Indirect:		
Atmospheric Ox A, OH:		
Atmospheric Ox B, O3:		

## Health Assessment

<p><b>Health Summary:</b> Expect poor absorption of the low molecular weight fractions [REDACTED]. The polymer is [REDACTED] which may result in developmental concerns. Based on average MW, this acid group would make up [REDACTED] of the PMN. If made differently, the acid group could make up a higher percentage of the PMN.</p> <p><b>Routes of Exposure:</b> Dermal Drinking Water Inhalation</p>
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## Test Data Submitted

<p><b>Test Data Submitted:</b></p>
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## Ecotox Assessment

Test organism	Test Type	Test Endpoint	Predicted	Measured	Comments
<b>Fish</b>	96-h	LC50	*		
<b>Daphnid</b>	48-h	LC50	*		
<b>Green Algae</b>	96-h	EC50	*		
<b>Fish</b>	-	Chronic Value	*		
<b>Daphnid</b>	-	Chronic Value	*		
<b>Green Algae</b>	-	Chronic Value	*		

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
<b>Acute Aquatic:</b>		5		acute/chronic; *
<b>Chronic Aquatic:</b>		10		acute/chronic; *

<b>Ecotox Route of Exposure?</b>	No releases to water
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Factors	Values	Comments
<b>SARs:</b>	Nonionic Polymers	
<b>SAR Class:</b>	Nonionic Polymers-insoluble	
<b>TSCA NCC Category?</b>	None	

## Recommended Testing

## Ecotox Value Comments

Predictions are based on SARs for nonionic polymers; [REDACTED] solid (est.) with an unknown MP (P); S = negligible (P); effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO<sub>3</sub>; and TOC <2.0 mg/L.

## Ecotox Factors Comments

Environmental Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risks because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA estimated environmental hazard of this new chemical substance using hazard data on analogous chemicals. Based on hazard data on analogous chemicals, EPA concludes that this chemical substance has low environmental hazard.

- Substance does not fall within a TSCA New Chemicals Category.
- SAR analogs for nonionic polymers.
- Low hazard based on an estimate of no effects at saturation.

Environmental Risks:

- Risks were not identified for ecotoxicity.

Testing Recommendations:

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No testing recommended.